

# ROUTINE

MWO Effective date is 1 June 1998 and completion date is 1 June 2002.

MWO 3-4240-347-20-1

## MODIFICATION WORK ORDER

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MODIFICATION OF MASK-CHEMICAL-BIOLOGICAL: Field, M40  
(NSN 4240-01-258-0061 – SMALL)  
(NSN 4240-01-258-0062 – MEDIUM)  
(NSN 4240-01-258-0063 – LARGE)

MASK-CHEMICAL-BIOLOGICAL: Field M40A1  
(NSN 4240-01-370-3821 – SMALL)  
(NSN 4240-01-370-3822 – MEDIUM)  
(NSN 4240-01-370-3823 – LARGE)

MASK-CHEMICAL-BIOLOGICAL: Combat Vehicle M42A2  
(NSN 4240-01-413-4100 – SMALL)  
(NSN 4240-01-413-4101 – MEDIUM)  
(NSN 4240-01-413-4102 – LARGE)

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HEADQUARTERS, DEPARTMENT OF THE ARMY, WASHINGTON, D.C.

1 JUNE 1998

### REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this MWO. If you find any technical errors that could cause personal injury or damage to materiel, please let us know. Contact U.S. Army Chemical Biological Defense Command and report the needed corrections by telephoning DSN 584-6539 or Commercial (410) 612-6539. Additionally, complete a DA Form 2028, Recommended Changes to Publications and Blank Forms, and mail to Technical Director, U.S. Army, Edgewood Research, Development and Engineering Center, ATTN: SCBRD-ENL-V, Aberdeen Proving Ground, Md 21010-5423.

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- PURPOSE.** The Purpose of this modification is to enhance the durability of the M40 and M42 Series Protective Masks by installing a Retaining Clamp on to the Facepiece which will preclude any additional separation (if present) of the silicone rubber from the Outlet Valve Housing.

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**2. PRIORITY.** This Modification is classified ROUTINE.

**3. END ITEM OR SYSTEM TO BE MODIFIED:**

NOMENCLATURE	LIN	NSN
Chemical-Biological Mask: Field M40 (Small)	M12418	4240-01-258-0061
Chemical-Biological Mask: Field M40 (Medium)	M12418	4240-01-258-0062
Chemical-Biological Mask: Field M40 (Large)	M12418	4240-01-258-0063
Chemical-Biological Mask: Field M40A1 (Small)	M12418	4240-01-370-3821
Chemical-Biological Mask: Field M40A1 (Medium)	M12418	4240-01-370-3822
Chemical-Biological Mask: Field M40A1 (Large)	M12418	4240-01-370-3823

NOMENCLATURE	LIN	NSN
Chemical-Biological Mask : Combat Vehicle M42A2 (Small)	M18526	4240-01-413-4100
Chemical-Biological Mask : Combat Vehicle M42A2 (Medium)	M18526	4240-01-413-4101
Chemical-Biological Mask : Combat Vehicle M42A2 (Large)	M18526	4240-01-413-4102

**4. MODULE(S) (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS, AND CARDS) TO BE MODIFIED.** Not Applicable.

**5. PARTS TO BE MODIFIED.** Not Applicable

**6. APPLICATION.**

- Time Compliance Schedule: This MWO is effective as of June 1998. The instructional video tapes and MWO kits will be available for shipment to all active Army, Reserve and National Guard units by Jul 98. Units have 4 years to install the MWO kits.
- Level of Maintenance: The lowest level of maintenance authorized to apply this MWO is at UNIT LEVEL -20.
- The total man-hours required for a single application of this MWO is 0.133 hours.
- Military Occupational Specialist (MOS): This effort will be performed by individuals who have the "63J", MOS classification and will be supported by individuals who have a "54B", MOS classification. The 63J individuals are Chemical Equipment Specialist and the 54B individuals are Nuclear, Biological and Chemical Operations Specialist.

**7. TECHNICAL PUBLICATIONS AFFECTED/CHANGED.** TM 3-4240-339-10, dtd 1 Feb 94; TM 3-4240-343-10, dtd Mar 96; TM 3-4240-300-20&P, dtd Jul 96; TM 3-4240-343-20&P, dtd 31 Jul 96.

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**8. MWO KIT(S)/PART(S) AND THEIR DISPOSITION.**

- a. Contents of MWO Kits are in the following list:

NOMENCLATURE	CAGE	PART NUMBER	NSN
Retaining Clamp	06383	PLT 1.5M-MUV5C/N	None
Tensioning Tool	06383	GS2B	None

**9. SPECIAL TOOLS; TOOL KITS; JIGS; TEST, MEASUREMENT AND DIAGNOSTICS EQUIPMENT(TMDE); FIXTURES REQUIRED; AND TOOLS:**

- a. Special Tool: The Tensioning Tool which is provided with the kit is the only tool required to apply the retaining clamp.
- b. No other equipment is required.

**10. MODIFICATION PROCEDURES ARE PROVIDED ON THE FOLLOWING 2 PAGES:**

1. REMOVE OUTSERTS, OUTLET VALVE COVER, HOOD AND SECOND SKIN IN THIS SEQUENCE.
2. PLACE RETAINING CLAMP BEHIND CONNECTION OF EXTERNAL DRINK TUBE AS SHOWN IN FIGURE 1. NOTE, THE RIDGED SIDE OF THE CLAMP SHOULD FACE INWARD.

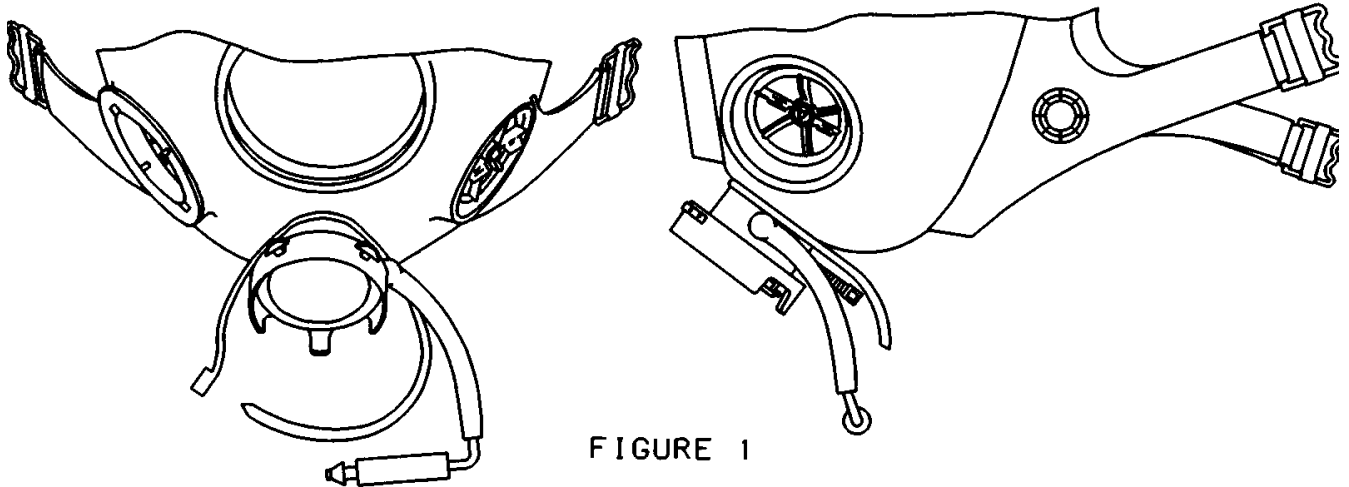


FIGURE 1

3. FEED THE POINTED END OF THE RETAINING CLAMP THROUGH THE RECTANGULAR HOLE IN THE OTHER END OF THE RETAINING CLAMP WITH RIDGES FACING INWARD.
4. WHILE PULLING THE POINTED END UNTIL TIGHT, POSITION THE RECTANGULAR LUG END OF THE CLAMP BETWEEN 6 O'CLOCK AND 9 O'CLOCK ON THE OUTLET VALVE BODY, WHEN VIEWING THE MASK FROM THE FRONT.
5. FLIP THE ADJUSTMENT KNOB ON THE GS2B TENSIONING TOOL SO THAT THE "MIN" SIDE IS FACING DOWNWARD, AS SHOWN IN FIGURE 2.

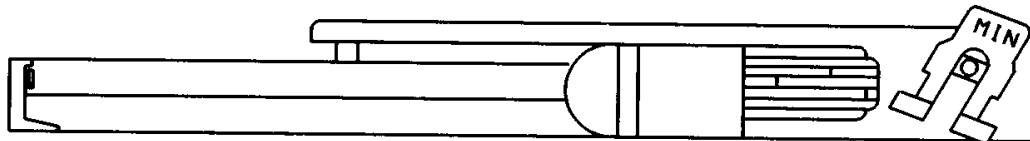


FIGURE 2  
(BOTTOM VIEW OF  
TENSIONING TOOL GS2B)

6. TURN THE ADJUSTMENT KNOB ON THE GS2B SO THE DASH IN THE TENSION INDICATOR WINDOW IS AT THE "3". AS SHOWN IN FIGURE 3.

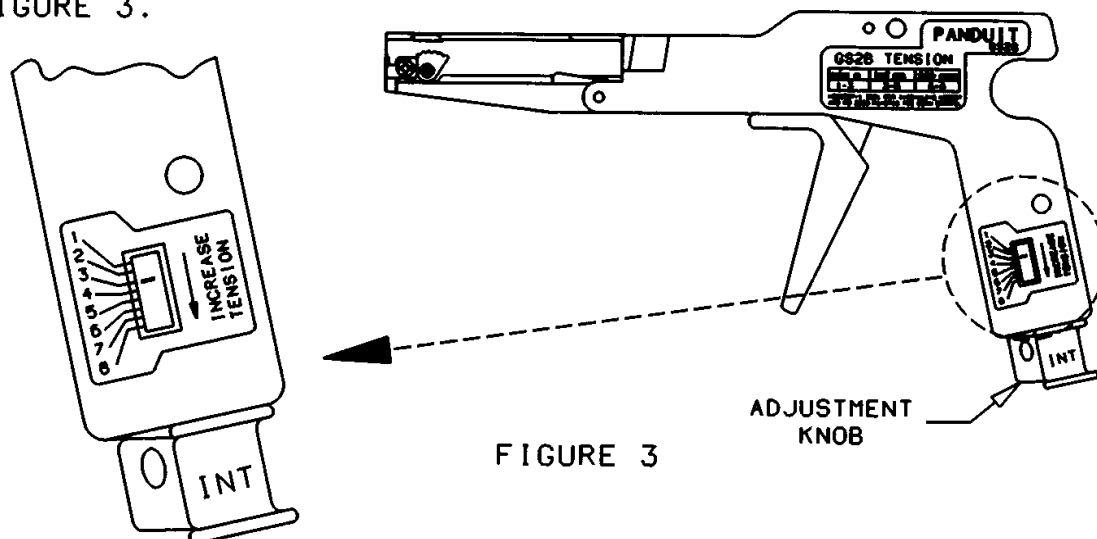


FIGURE 3

7. PLACE THE POINTED END OF THE RETAINING CLAMP INTO THE END OF THE GS2B TENSIONING TOOL. AS SHOWN IN FIGURE 4.

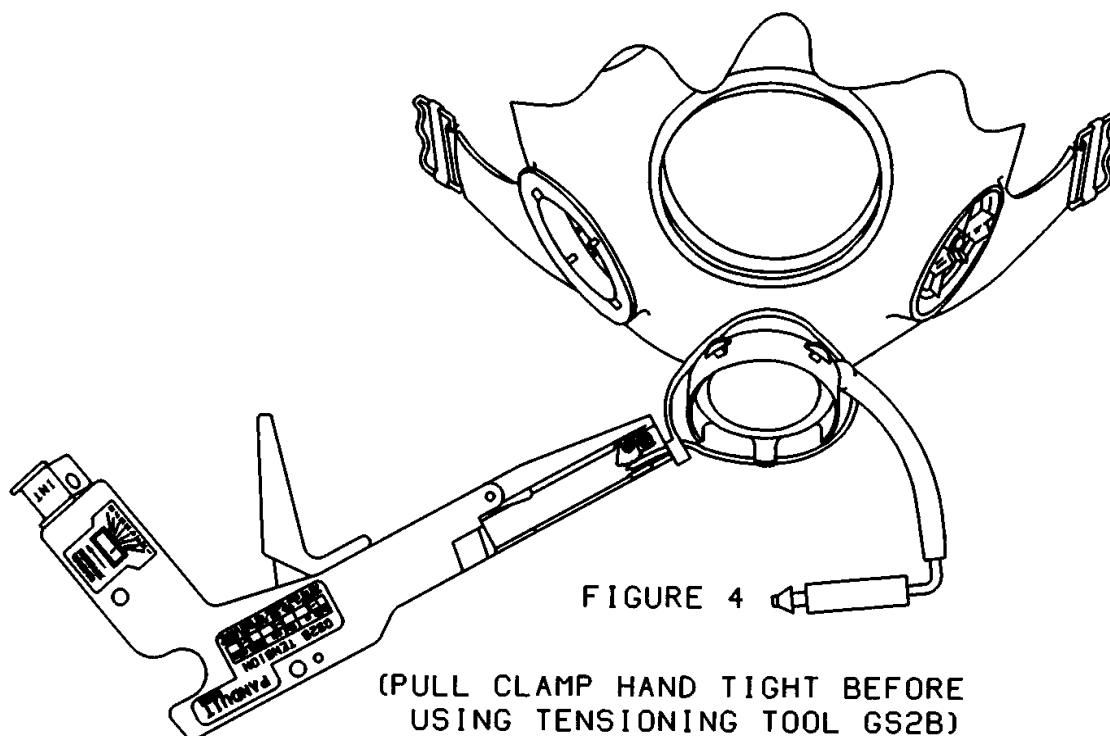


FIGURE 4

8. QUICKLY PULL THE TRIGGER TO TIGHTEN AND CUT OFF THE RETAINING CLAMP.
9. REPLACE THE SECOND SKIN, HOOD, OUTLET VALVE COVER, AND OUTSERTS.

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**11. CALIBRATION REQUIREMENTS.** Not Applicable

**12. WEIGHT AND BALANCE DATA.** Not Significantly Affected

**13. QUALITY ASSURANCE REQUIREMENTS.**

- a. The 54B individuals will inspect the mask to ensure that the Retaining Clamp is properly in place at least once a year when each soldiers undergoes his verification of fit test with the M41 Protection Assessment Testing System (PATS). If the Retaining Clamp is missing, loose or broken, contact the installation MWO Office to make arrangements to obtain the necessary materials to apply the clamp.
- b. Request that the Tensioning Tool and excess Retaining Clamps be retained until 1 June 2004. Retention of these kits is necessary to ensure that if any units or individuals fail to apply the MWO in the required time frame, they can easily obtain the kits.

**14. RECORDING AND REPORTING OF THE MODIFICATION.**

**NOTE:** If you are required to use the DA Form 5504 because of automation at your location, please write your UIC and installation somewhere on the DA Form 5504

- a. Records and Reports. Record and report accomplishment of the modification in accordance with DA PAM 738-750, The Army Maintenance Management System (TAMMS), Standard Army Maintenance Systems (SAMS). A DA Form 2407/5504 shall be completed and submitted within 3 days of accomplishment of modification. Specific instructions for use of Records and Reports. Record and report accomplishment of the modification in accordance DA Form 2407/5504 (to report a modification) are contained in paragraph 3-8 and figure 3-12 of DA PAM 738-750. After completion, copies of DA Form 2407/5504 will be distributed as follows.

(1) Copy 1: retained by using unit

(2) Copy 2: Director  
ACALA  
ATTN: AMSTA-AC-NMR  
Rock Island, IL 61299-7630

(3) Copy 3: Retained by unit

- b. Marking equipment. Not Applicable
- c. Identification Data. Not Applicable

**15. CONFIGURATION CONTROL BOARD DIRECTIVE.** This MWO is authorized by Configuration Control Board Directive No. Y73-0107. The Retaining Clamp is now being applied to all new M40A1 and M42A2 Mask Production items.

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**16. MODIFICATION IDENTIFICATION.** The Retaining Clamp is visible on the external portion of the Outlet Valve Housing under the one piece hood or second skin.

OFFICIAL Signature

Distribution